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GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: June 17, 2003, 16:25:00 ; Search time 154.274 Seconds
(without alignments)
10334.327 Million cell updates/sec

Title: US-09-807-933B-4
Perfect score: 1101
Sequence: 1 atgagattactactattac.....caggtgtccagaataa 1101

Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 1029858 seqs, 724030393 residues

Total number of hits satisfying chosen parameters: 2059716

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database :

Published Applications NA:
1: /cgn2_6/ptodata/1/pubpna/US07_PUBCOMB.seq:*
2: /cgn2_6/ptodata/1/pubpna/PCT_NEW_PUB.seq:*
3: /cgn2_6/ptodata/1/pubpna/US06_NEW_PUB.seq:*
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14: /cgn2_6/ptodata/1/pubpna/US60_PUBCOMB.seq:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	194.2	17.6	1473	10 US-09-735-787-3	Sequence 3, Appl1
2	181.2	16.5	1423	9 US-10-007-521-9	Sequence 9, Appl1
3	178	16.2	927	9 US-10-007-521-5	Sequence 5, Appl1
4	177.8	16.1	960	9 US-10-007-521-1	Sequence 1, Appl1
5	177.8	16.1	1132	9 US-10-007-521-21	Sequence 21, Appl1
6	176.8	16.1	894	9 US-10-007-521-3	Sequence 3, Appl1
7	166	15.1	1154	9 US-10-007-521-7	Sequence 7, Appl1
8	163.8	14.9	913	9 US-10-007-521-13	Sequence 13, Appl1
9	162	14.7	885	9 US-10-007-521-23	Sequence 23, Appl1
10	158.8	14.4	1174	9 US-10-007-521-11	Sequence 11, Appl1
11	154.6	14.0	1061	9 US-09-261-329-23	Sequence 23, Appl1
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13	135.4	12.3	808	9 US-10-007-521-15	Sequence 15, Appl1
14	134	12.2	1031	9 US-10-007-521-19	Sequence 19, Appl1
15	134	12.2	1048	9 US-10-007-521-17	Sequence 17, Appl1
16	125.2	11.4	425	9 US-10-007-521-25	Sequence 25, Appl1
17	70.6	6.4	936	7 US-08-841-636A-30	Sequence 30, Appl1
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20	58.8	5.3	171	9 US-10-007-521-51	Sequence 51, Appl1
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23	54.4	4.9	165	9 US-10-007-521-77	Sequence 77, Appl1
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33	43.8	4.0	558	9 US-09-998-660-1	Sequence 1, Appl1
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36	42.6	3.9	1403	10 US-09-864-761-2513	Sequence 2513, Ap
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38	40.6	3.7	153	9 US-10-007-521-49	Sequence 49, Appl1
39	40.6	3.7	160	9 US-10-007-521-75	Sequence 75, Appl1
40	40.2	3.7	574	10 US-09-864-761-228	Sequence 228, App
41	40.2	3.7	669	9 US-09-864-761-17051	Sequence 17051, A
42	40.2	3.7	1952	9 US-10-187-294A-1	Sequence 1, Appl1
43	39.8	3.6	153	9 US-10-007-521-39	Sequence 39, Appl1
44	38.4	3.5	1365	9 US-10-213-990-8	Sequence 8, Appl1
45	38	3.5	358	10 US-09-864-761-17669	Sequence 17669, A

ALIGNMENTS

RESULT 1
US-09-735-787-3
Sequence 3, Application US/09735787
Patent No. US20010036910A1

GENERAL INFORMATION:
APPLICANT: Rasmussen, Grethe
Schleisen, Jan Moller
Patkar, Shankant A.
Hagen, Fred
TITLE OF INVENTION: A Cellulase Preparation Comprising an
Endoglucanase Enzyme
NUMBER OF SEQUENCES: 33
CORRESPONDENCE ADDRESS:
ADDRESSEE: NO. US20010036910A10 No. US20010036910A1disk of No. US200100369
STREET: 405 Lexington Avenue, 64th Floor
CITY: New York
STATE: New York
COUNTRY: United States of America
ZIP: 10174-6401
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/735,787
FILING DATE: 13-Dec-2000
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 09/189,028
FILING DATE: <Unknown>
ATTORNEY/AGENT INFORMATION:
NAME: Lambitis, Elias J.
REGISTRATION NUMBER: 33,728
REFERENCE/DOCKET NUMBER: 3469,214-US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 212-867-0123
TELEFAX: 212-878-9655
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 1473 base pairs

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1 TYPE: nucleic acid
2 STRANDEDNESS: single
3 TOPOLOGY: linear
4 MOLECULE TYPE: cDNA
5 HYPOTHETICAL: NO
6 ANTI-SENSE: NO
7 ORIGINAL SOURCE:
8 ORGANISM: Fusarium oxysporum
9 STRAIN: DSM 2672
10
11 FEATURE:
12 NAME/KEY: CDS
13 LOCATION: 97..1224
14
15 SEQUENCE DESCRIPTION: SEQ ID NO: 3
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				Gaps 2

Qy	46	GTGGGAGCCTCTGGTAACGGGTGACCTACTGCTTAATGGGAATTCGTAAAGGCTCCCTGTA	523
Dd	143	GTGGCTGCTTGGGAAGCGGTCACTTAATCGATACATCGGAATTCGTGAAGCCTTTCTGCT	202
Qy	524	GCTGGCCCGGTAAAGGCCAATGTCAAGTTCTCTGTCAAGTCTGTAAACAAGATGGTGTCA	583
Dd	203	CTTGGAGGGAAAGGCTGCTTCAAGCGCCCTGGCTTAACTGTGTATGAACAACAAC	262
Qy	584	CTGGCCTTAAGTACAGCAATGTCCAAATGGCTGTAAACGGTGGTAAACGTAACTGTGTA	643
Dd	263	CCATTTCACAACAATAGCTGTCAACGGTGTGAAGGATGGTTCCTGCTTAAGCTTGTCA	322
Qy	644	AGGAATACCAAGCTTGGGCTGTAAACGATATCTTGGCTTAAGTTGGCTGCTGTGCCA	703
Dd	323	CCAACTATCTCCCTGGGCTGTCAACGATAGCTGTGTCAACGTTTCCGTGTCAACAAG	382
Qy	704	TCAGTGGTGGTGGTGAATCTCGCTGATCTTTCTGTGTTTCAACCTTACTTCACTTCA	763
Dd	383	TCCTCGGAGGCTCCGAGCCACACTGCTGTCTGTGCTTATGCTTTGACCTTCAACACTG	442
Qy	764	CCTGTGTCGTGGTAAGAAAGATGGTATTCAACAAGTCAACATCGTGGTGAATCTTGGCT	823
Dd	443	GCCCGCTCAAGGCGAAGAAAGATGAATGCTGCACATGTCCACAACCTGGAATATTCGGC	501
Qy	824	CCTCTACTGTGTCACTTTGACTTGAATGCCCCGAGTGGTGGTATTTTCATG	883
Dd	502	-----GACAAACACTTCGATCTTCATGATGCCCCGAGTGGTGGTATCTTTCGACG	553
Qy	884	GTGTGCTCAAGCAATGAGGAGTGTCCCATATGACGTTGGGCTTCGAGATACGGTGTATT	943
Dd	554	GGTGACCTCTGAGTTCCG-----CAAGGCTTCGGCGGGTCCCAAGTACGGCGATCT	607
Qy	944	CTTCTGCATCTGACTGCTCTTAATCTTCTTTCCGACTCCAAAGCTGTGTGAATGAGAT	1003
Dd	608	CCTCCCAAGGAGATGTGATAGCTTACCCCGAGCTCTCAAGACGCTTGCACATCGCGAT	667
Qy	1004	TCAACTGGTTCAGAAAGCCTGTAAACCAAGACATGACTTACAAGAGAAATTACTGTGCCA	1063
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Dd	728	AGGCTCTCTCGAATCAAGTGATG	152

RESULT 2
US-10-007-521-9
; Sequence 9, Application US/10007521
; Publication No. US20030054539A1
; GENERAL INFORMATION:

APPLICANT: Schulein, Martin
Andersen, Lene N.
Lassen, Soren F.
Käupplinen, Markus S

1 Lange, Lene
 2 Nielsen, Ruby I.
 3 Ihara, Michiko
 4 Takaagi, Shinobu
 5
 6 TITLE OF INVENTION: No. US20030054539A1 Endog[uncanases
 7
 8 NUMBER OF SEQUENCES: 109
 9
 10 CORRESPONDENCE ADDRESS:
 11
 12 ADDRESSEE: No. US20030054539A1o No. US20030054539A1disk of No. US200300545
 13
 14 STREET: 405 Lexington Avenue, 64th Floor
 15
 16 CITY: New York
 17
 18 STATE: New York
 19
 20 COUNTRY: United States of America
 21
 22 ZIP: 10174-6401
 23
 24 COMPUTER READABLE FORM:
 25
 26

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1      MEDIUM TYPE: floppy disk
2      COMPUTER: IBM PC compatible
3      OPERATING SYSTEM: PC-DOS/MS-DOS
4      SOFTWARE: Patent In Release #1.0, Version #1.30
5
6      CURRENT APPLICATION DATA:
7
8      APPLICATION NUMBER: US/10/007,521
9      FILING DATE: 10-Dec-2001
10     CLASSIFICATION: <Unknown>
11
12     PRIOR APPLICATION DATA:
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14     APPLICATION NUMBER: US/08/651,136
15     FILING DATE: 21-May-1996
16
17     ATTORNEY/AGENT INFORMATION:
18
19     NAME: Lamberts, Elias J.
20     REGISTRATION NUMBER: 33,728
21     REFERENCE/DOCKET NUMBER: 4366.200-US
22
23     TELECOMMUNICATION INFORMATION:
24
25     TELEPHONE: 212-867-0123
26     TELEFAX: 212-878-9655
27
28     INFORMATION FOR SEQ ID NO: 9:
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30     SEQUENCE CHARACTERISTICS:
31
32     LENGTH: 1423 base pairs
33     TYPE: nucleic acid
34     STRANDEDNESS: single
35     TOPOLOGY: linear
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37     MOLECULE TYPE: cdna
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39     FEATURE:
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41     NAME/KEY: CDS
42     LOCATION: 110..1156
43
44     SEQUENCE DESCRIPTION: SEQ ID NO: 9:
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46     JS-10-007-521-9

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Query Match	16.5%	Score 181.2	DB 9	Length 1423
Best Local Similarity	59.5%	Match No. 1e-48		
Matches 369	Conservative 0	Mismatches 233	Indels 18	Gaps 3
QY	463	GCCCTCTGTAAAGCGTGTCACTACTGTTATTATGGAATTTGCTGTAAAGCCCTCTGTAGCTG	528	
Db	170	GCTCTGGGCAAAAGGCCACACACCCCGCTACCTGGGATTTGCTGAGACTCTCTGGCATG	229	
QY	529	CCCGGTAAAGCCAAATCTCAAGTTCTTCCTGTCAATCTCTGTAAACAAAGATGGTGTCAATGCC	588	
Db	230	GAGGGCAAGGCAATCCGCTCTCCGAGCTGTCTCACTGTAAACAA---GGAACAACCC	286	
QY	588	CTTAGTGAACAGCAATGTCCTCAAAAGTGGCTGTAAACGGTGTAAACAGTTATCATGTGTAAACAC	648	
Db	287	ATCTGTATGCCAACGCCAGAAAGCGGCTGTGACAGCGAGCGGGGCAATTTGCCTGTACCAAC	346	
QY	649	AACAGCGTTGGGCTGTAAAGATTAATCTTGCCATATGTTTGGCTGTGCATCAATCAAT	708	
Db	347	AATTCCTCTTTGGGCGTGGAGGAGAACTGTGGCTTAACGATTGTCTGCACAGCCCTCAGC	406	
QY	709	GATGTGTGTAAATCTCGCTGGGCGCTTTCTTGTTGTGAACTTACCTTCACTCTACCTCT	768	
Db	407	GAGCGCACTAAGAGGACGCTGTGTCTGGCGCTGTTAAGCCATCACTTACAGATGGACCT	466	
QY	769	GTTCTGTGTAAAGATGTGTTATCCAAAGTCACTAAACATGTTGTGTATCTTGGCTCTCT	828	
Db	467	GTTGCTGTGCMAAGATGTGTGTCTCAATGTCCACAAACGGAAGGGAGACTGTCTCAAC---	523	

[illegible]

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patentin Release #1.0, Version #1.30
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/10/007,521
 FILING DATE: 10-Dec-2001
 CLASSIFICATION: <Unknown>
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US/08/651,136
 FILING DATE: 21-MAY-1996
 ATTORNEY/AGENT INFORMATION:
 NAME: Lambiris, Elias J.
 REGISTRATION NUMBER: 33,728
 REFERENCE/DOCKET NUMBER: 4366,200-US
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 212-867-0123
 TELEFAX: 212-878-9655
 INFORMATION FOR SEQ ID NO: 1:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 960 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: cDNA
 FEATURE:
 NAME/KEY: CDS
 LOCATION: 113..787
 SEQUENCE DESCRIPTION: SEQ ID NO: 1:
 US-10-007-521-1

Query Match 16.1%; Score 177.8; DB 9; Length 960;
 Best Local Similarity 58.6%; Pred. No. 1e-47;
 Matches 371; Conservative 0; Mismatches 247; Indels 15; Gaps 3;

471 CTCTGGTAAAGGTGCACTACTGTTATGGAGTTGCTGTAGAGCTCTCTAGCTGAC 530
 172 CTGGGATCGGCGAGAGACCGGATCTGGAGCTCTGCAAGCCGAGCTGCGCTGAC 231
 531 CGGTAAAGCAATGTCACTTCTCTGCAAGTCTGTAACTTAAAGATGATGCTGCTCT 590
 232 CGGCAAGGAGCC--CTGCTCTCGGAGGAGGCTGCGCAAGAAAGCAACCCGCTCAA 288
 591 TAGTACAGCAATGTCCAAAGTGTGCTGTAACTGCTGTAAGT--TACATGTGTAACA 647
 289 CAGCGGCGCTCCACCGGCTCGGCTGCGAGCGGCGGCGAGCGCTTACATGCTCTCTC 348
 648 CAACGAGCTTGGGCTGTAAGCAATCTTGGCTATGCTGCTGCTGCTGCAATCAG 707
 349 CAGAGCCCTGAGCGGCGAGAGAGCTGTGTAGGCTGAGCGGCGGCTGCAAGCTGCG 408
 708 TGTGTGTGTAATCTGCTGTGCTGTCTGTCTGTCTGTAACCTTACCTTCTTACTCT 767
 409 CCGAGCTCTCGAGTGTGCTGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 468
 768 TGTGTGTGTAAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 827
 469 GGTGCGGCGCAAGAGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 523
 828 TACTGTGTCTACTTGTGCAATGCGGCTGATGATGATGATGATGATGATGATGATGATG 887
 524 ---GCAACACCTTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 947
 888 CTTCAGCAATGGGCTGCTGCAATGAGGCTGAGGCTGAGGCTGAGGCTGAGGCTGAGGCT 947
 580 CACCGACAGTACGCGCTGCTGCGAAGGCTGAGGCTGAGGCTGAGGCTGAGGCTGAGGCT 639
 948 TGCATGTACTGCTTACTTCTTCTTCTGCACTGCAAGTGTGATGATGATGATGATGATG 1007
 640 CAGAGAGAGTGAATCTTCTGCGAGGCTGCAAGGCTGCAAGGCTGCAAGGCTGCAAGGCT 639
 1008 CTGCTTCAAGAAAGCTGATTAACCAAGCATGACTTCAAGAAATTAAGTCTTCTTCAAGA 1067

Db 700 CTGCTTCAAGAAAGCTGATTAACCAAGCATGACTTCAAGAAATTAAGTCTTCTTCAAGA 759
 Oy 1068 AATCACCGCCAGAGAGGTTGTTCAAGAAATTA 1100
 Db 760 GTCACGCTCAAGAGCGGCTGCTGCTGCTTAAAGA 792

RESULT 5
 US-10-007-521-21
 Sequence 21, Application US/10007521
 Publication No. US20030054539A1
 GENERAL INFORMATION:

APPLICANT:

Schulzein, Martin
 Andersen, Lene N.
 Laessen, Soren F.
 Kauppinen, Markus S.
 Lange, Lene
 Nielsen, Ruby I.
 Ihara, Michiko
 Takagi, Shinobu

TITLE OF INVENTION: No. US20030054539A1el Endoglucanases
 NUMBER OF SEQUENCES: 109
 CORRESPONDENCE ADDRESS:

ADDRESSES: No. US20030054539A1c No. US20030054539A1disk of No. US200300545
 STREET: 405 Lexington Avenue, 64th Floor
 CITY: New York
 STATE: New York
 COUNTRY: United States of America
 ZIP: 10174-6401

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patentin Release #1.0, Version #1.30
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/10/007,521
 FILING DATE: 10-Dec-2001
 CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US/08/651,136
 FILING DATE: 21-MAY-1996

ATTORNEY/AGENT INFORMATION:
 NAME: Lambiris, Elias J.
 REGISTRATION NUMBER: 33,728

REFERENCE/DOCKET NUMBER: 4366,200-US
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 212-867-0123
 TELEFAX: 212-878-9655

INFORMATION FOR SEQ ID NO: 21:

SEQUENCE CHARACTERISTICS:
 LENGTH: 1132 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: cDNA
 FEATURE:

NAME/KEY: CDS
 LOCATION: 42..971
 SEQUENCE DESCRIPTION: SEQ ID NO: 21:
 US-10-007-521-21

Query Match 16.1%; Score 177.8; DB 9; Length 1132;
 Best Local Similarity 57.8%; Pred. No. 1.2e-47;
 Matches 383; Conservative 0; Mismatches 262; Indels 18; Gaps 3;

Oy 426 CTCTTCTAATCTTACGCGCAAAATCTCCATGCTCTGAGTGGCTCTGTAACGGTGT 485
 Db 50 CTCTGAGTCTCATTCGCGCTCGTGGCGGTGTGTGGCGCCAGTCTCTGTGGCACGGCGG 109
 Oy 486 CACTTACTGTTATGGATGCTGTAAAGCTCTCTGTAGCTGAGCCGGTAAAGGCAATGT 545
 Db 110 CACCAACGATACGTGGACTGTGTCAAGCGGCTCTGTGGGTGGAGCGAAAGAGGCTCTCGT 169

QY 546 CAGTTCTCTGTCAGAGTCCTGTAACAAAGATGTCAGTCGCTTATGTCAGCAATGT 605
DB 170 CAGCAGACCCCTCAAGACGTGCAATAGAAACAACACCTCTCTCCGCTCAAGGCCAGAG 229
QY 606 CCAAGTGGCTGTACCGGTGTAAAGTTACATGTGTACGACCAACGAGCTTGGGCTGT 665
DB 230 CGGCTGGATTCACAGCGCGTGGCC---TACAGTGCACAGATTAACGAGCGGTGGCTGT 286
QY 666 AAAGATTAATTTGTCATGTTTTCGCTGTCGTCACATGATGTGTGTATCTCG 725
DB 287 CAAGCAATACCTGGCTATGTTTGTCTGACAGGCTTTCAGTGTGTATGTCAGAGCCAG 346
QY 726 CTGGTGTCTGTTCTGTTTCAACTTACTTCACTTCTGTCGTGTGTAAAGAT 785
DB 347 CTGCTGCTGTCCTGCTATGCTTCACTTCACTTCCGCTGTGTGTGTAAAGACAT 406
QY 786 GGTATCCAACTCACTAACACTGTGTATCTTGGCTCTCTACTGTGTCTCACTTTGA 845
DB 407 GGTGCTCAAGTCGACAAACACGGGGGACCTCAGC-----GGCAACCACTTTGA 457
QY 846 CTTCGAATGCTGGGTGTGTGTGTGTATTTTCAATGTGTGTCTCAAGCAATGGGCTC 905
DB 458 CATCTCATGCTCGCGCGCGCTGGGCTATCTTCAAGCGCTGACCCGCAATGGGCT 517
QY 906 TCCCAATGACGTTGGGCTGAGATAGAGTGTATTTCTTGTGATCTGACTGTCTAG 965
DB 518 CAGCTTCCCCGAAACCC-----TAGCGCGCACCAACGAGCCGACGCTCTCCA 571
QY 966 TCTTCTTCCGACTCCAGCTGTGTGTAAATGAGATTCATGTGTCAAGCAAGCGCTGA 1025
DB 572 AATCCCTCGGCTCGAGCCCGGCTGCACTGGGCGTACACATGTGTTCACAGAGCGGA 631
QY 1026 TAATCCCAAGCATGACTTACAGAGAAATTAATCTGTCTCCAGAAATCAACGCAAGAG 1085
DB 632 CAAGCCCGACGTCTGTGCGCGCGCTGCAAGTCCCGCCGCACTCACCGACCGACCGG 691
QY 1086 TTG 1088
DB 692 CTG 694

RESULT 6
US-10-007-521-3
Sequence 3, Application US/10007521
Publication No. US20030054539A1
GENERAL INFORMATION:
APPLICANT: Schuelein, Martin
Andersen, Lene N.
Larsen, Soren P.
Kauppinen, Markus S.
Lange, Lene
Nielsen, Ruby I.
Ihara, Michiko
Takagi, Shinobu
TITLE OF INVENTION: No. US20030054539A1el Endoglucanases
NUMBER OF SEQUENCES: 109
CORRESPONDENCE ADDRESS:
ADDRESS: No. US20030054539A1o No. US20030054539A1disk of No. US200300545
STREET: 405 Lexington Avenue, 64th Floor
CITY: New York
STATE: New York
COUNTRY: United States of America
ZIP: 10174-6401
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/007,521
FILING DATE: 10-Dec-2001
CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/651,136
FILING DATE: 21-MAY-1996
ATTORNEY/AGENT INFORMATION:
NAME: Lambiris, Elias J.
REGISTRATION NUMBER: 33,728
REFERENCE/DOCKET NUMBER: 4366,200-US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 212-867-0123
TELEFAX: 212-878-9655
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 894 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
FEATURE:
NAME/KEY: CDS
LOCATION: 1..891
SEQUENCE DESCRIPTION: SEQ ID NO: 3:
US-10-007-521-3
Query Match 16.1%; Score 176.8; DB 9; Length 894;
Best Local Similarity 58.8%; Pred. No. 2.1e-47;
Matches 367; Conservative 0; Mismatches 242; Indels 15; Gaps 3;
QY 471 CTCTGTGAACGATCTACTCTGTTATTTGGATTTCTGTGAAGCCCTCTTACTGGCC 530
DB 60 CTCGGGATCGGCGACAGACCCGGTACTGGGACTCTGCAAGCCGAGCTGGCC 119
QY 531 CGTAAAGCCAAATGTCAGTTCTCTGTCAGTCTGTAAACAAAGATGTCAGTGGCCCT 590
DB 120 CGGAAAGGCC---CTGCTCTGGTGTGAGGCTGTGCAAGAACAAACCCGCTCA 176
QY 591 TAGTGAACGAATGTCCAAAGTGTGTAACGATGTGAAGT---TACATGTGTAAAGA 647
DB 177 GACGCGGCTCCACCCGCTCGGCTGAGCGGCGGCGGCGGCTTACATGTCTCTC 236
QY 648 CAACAGCTTTGGCTGTAAACGATTAATCTTGGCTTATGTTGCTGTGTGCTGCTAG 707
DB 237 CCAAGCCCTGGGCGCTGACGAGAGCTGTGTAAGCTGTGGCGGCTGCAAGCTTGC 296
QY 708 TGTGTGTGAATCTGCTGTGTGTCTTGTGTAAGTCTTCACTTCACTTCACTC 767
DB 297 CGGAGCTCCGAGTGTGAGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 356
QY 768 TGTGTGTGAAGATGTGTATTCAGTCACTTAACACTGTGTGTGTGTGTGTGTGTGT 827
DB 357 GGTGGGGGCAAGATGATGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 411
QY 828 TACTGTGTCTACTTGTGACTTGAATGCAATGCTGGGTGTGTGTGTGTGTGTGTGT 887
DB 412 ---GACAAACCACTTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTG 467
QY 888 CTCAAGCAATGGGT 947
DB 468 CACGACCAAGTACGAGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 527
QY 948 TGCATCTGACTCTCTGATCTTCTTCTTCTGCACTCAAGCTGTGTGTGTGTGTGTGT 1007
DB 528 CAAGGAAGAGTGCAATCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTT 587
QY 1008 CTGTTCAAGAACGCTGTAAACCAAGCATGACTTCAAGAAATGTTACTGTCCACAGA 1067
DB 588 CTGTTCCAAAACCCGCAACCCGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTG 647
QY 1068 AATCAAGCCCAAGACAGTGTTC 1091
DB 648 GCTCAGTCCAGAGCGGCTCTC 671

RESULT 7

Db 471 ATGGAACGGATCAATCT------GGGCAACAGATGCGGCTTCACTGACCGCTGCA 524
Oy 957 CTGCTCTAGCTCTTCTCCGACATCCAGCTGTTGTAATGAGATTCAACTGTTCA 1016
Db 525 ATGTGGACGCTCCGCTCAAGTGGACGCGCAGCTCAACTGCGCTTCACTGTTCA 584
Oy 1017 GAACGCTGATMAACCAACATGATCTTCAAGAACTTACCTGTTCCCAAGAAATCACCGC 1076
Db 585 GAATGCCGACACCCCAACGTCGATTTGGAGCTGTCACTGCCCCACAGAAATGTCGC 644
Oy 1077 CAGACAGGTTGTCAAGAA 1096
Db 645 CCGAGCTGCTCTTCCCTA 664

RESULT 10

US-10-007-521-11
Sequence 11, Application US/10007521
Publication No. US20030054539A1

GENERAL INFORMATION:

APPLICANT:

Schulein, Martin
Andersen, Lene N.
Laessen, Soren F.
Kaupinen, Markus S.
Lange, Lene
Nielsen, Rudy I.
Ikari, Michiko
Takagi, Shinobu

TITLE OF INVENTION: No. US20030054539A1 Endoglucaases
NUMBER OF SEQUENCES: 109
CORRESPONDENCE ADDRESS:

ADDRESS: No. US20030054539A10 No. US20030054539A1disk of No. US200300545
STREET: 405 Lexington Avenue, 64th floor
CITY: New York
STATE: New York
COUNTRY: United States of America
ZIP: 10174-6401

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent in Release #1.0, Version #1.30

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/007,521
FILING DATE: 10-Dec-2001
CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/651,136
FILING DATE: 21-MAY-1996

ATTORNEY/AGENT INFORMATION:

NAME: Lambiris, Elias J.
REGISTRATION NUMBER: 33,728
REFERENCE/DOCKET NUMBER: 4366,200-US
TELEPHONE: 212-867-0123
TELEFAX: 212-878-9655

INFORMATION FOR SEQ ID NO: 11:

SEQUENCE CHARACTERISTICS:
LENGTH: 1174 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
FEATURE:

NAME/KEY: CDS
LOCATION: 60..956
SEQUENCE DESCRIPTION: SEQ ID NO: 11:
US-10-007-521-11

Query Match 14.4% Score 158.8; DB 9; Length 1174;
Best Local Similarity 56.9%; Pred. No. 2,2e-41;
Matches 361; Conservative 0; Mismatches 252; Indels 21; Gaps 3;

Oy 455 TTGTCTGTGCTGCTCTCTGTGTAAGGTCTCACTACTCTGTTATTGGATTGCTGTAAG 514
Db 109 TGTGTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 168
Oy 515 CTTCTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 574
Db 169 CTTCTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 225
Oy 575 ATGTGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 634
Db 226 CCAACTTCCAGCGCTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 285
Oy 635 ACATGTGTAAGACACACACAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 694
Db 286 ACTCTGCGCGACACACACAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 345
Oy 695 CTG 754
Db 346 CGACGAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 405
Oy 755 TCACTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 814
Db 406 TCACTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 465
Oy 815 ATTTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 874
Db 466 ACCTGGG-----AAGTAACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 516
Oy 875 TTTTCATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 934
Db 517 TCTTCAACGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 567
Oy 935 GTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 994
Db 568 GCGCATTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 627
Oy 995 AATGAGATTCACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1054
Db 628 AGTGGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 687
Oy 1055 CTTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1088
Db 688 AGTGGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 721

RESULT 11

US-09-261-329-23

Sequence 23, Application US/09261329

Publication No. US20030092097A1

GENERAL INFORMATION:

APPLICANT: Andersen, Kim
APPLICANT: Schulein, Martin
APPLICANT: Christensen, Lars
APPLICANT: Damgaard, Bo
APPLICANT: Von Der Osen, Claus
TITLE OF INVENTION: Cellulase Variants
FILE REFERENCE: 4887,204-US
CURRENT APPLICATION NUMBER: US/09/261,329

EARLIER FILING DATE: 1998-03-03
EARLIER APPLICATION NUMBER: 1013/96
NUMBER OF SEQ ID NOS: 26

SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 23
LENGTH: 1261
TYPE: DNA
ORGANISM: Humicola grisea

US-09-261-329-23

Query Match 14.0% Score 154.6; DB 9; Length 1261;
Best Local Similarity 57.6%; Pred. No. 5.5e-40;
Matches 346; Conservative 0; Mismatches 234; Indels 21; Gaps 3;

Wed Jun 18 17:55:42 2003

us-09-807-933b-4.rmpb

Page 10

Qy 1013 TCAGAGCGCTGATTAACCAAGCATGACTTACAGAGATTACTGTTCCAGAAATCA 1072
Db 593 TCAGAGCGCTGATTAACCAAGCATGACTTCCGTCAGGTCCAGTCCGCGAGCTCG 652
Qy 1073 CCGCCAGAGACAGGTTG 1088
Db 653 TCGCTCGACCGGATG 668

RESULT 13

US-10-007-521-15

Sequence 15, Application US/10007521

Publication No. US20030054539A1

GENERAL INFORMATION:

APPLICANT: Schuelein, Martin

Andersen, Soren F.

Larsen, Lene N.

Kauppinen, Markus S.

Lange, Lene

Nielsen, Ruby I.

Ihara, Michiko

Takagi, Shinobu

TITLE OF INVENTION: No. US20030054539A1 Endoglucanases

NUMBER OF SEQUENCES: 109

CORRESPONDENCE ADDRESS:

ADDRESS: No. US20030054539A10 No. US20030054539A1disk of No. US200300545

STREET: 405 Lexington Avenue, 64th Floor

CITY: New York

STATE: New York

COUNTRY: United States of America

ZIP: 10174-6401

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

OPERATING SYSTEM: IBM PC compatible

SOFTWARE: Patentin Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/10/007,521

FILING DATE: 10-Dec-2001

CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US/08/651,136

FILING DATE: 21-MAY-1996

ATTORNEY/AGENT INFORMATION:

NAME: Lambiris, Elias J.

REGISTRATION NUMBER: 33,728

REFERENCE/DOCKET NUMBER: 4366.200-US

TELECOMMUNICATION INFORMATION:

TELEPHONE: 212-867-0123

TELEFAX: 212-878-9655

INFORMATION FOR SEQ ID NO: 15:

SEQUENCE CHARACTERISTICS:

LENGTH: 808 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: cDNA

FEATURE:

NAME/KEY: CDS

LOCATION: 37..714

SEQUENCE DESCRIPTION: SEQ ID NO: 15:

US-10-007-521-15

Query Match

Best Local Similarity 12.3%; Score 135.4; DB 9; Length 808;

Matches 340; Conservative 0; Mismatches 266; Indels 15; Gaps 3;

Db 481 GGTGTCACTACTGTTATGCGATGCTGTAAGCGCTCTGAGCTGCGCGGTAAGCC 540

Db 112 GGAGTTACGACCGGCTACTGCGAGCTGCGAGCCAGACTGTGATGAGGAAAGCT 171

Qy 541 AATGTCACTTCTCTCAAGTCCTGTACAAAGATGTTGCTCACTGCTTATGACAGC 600

Db 172 TCTGTTTCTCTCATCTCAAGAACTTGCGATCGTAATGAAATACCTTGCGCCAGACTG 231

Qy 601 AATGTCAAGAGCTGTATACGCTGTATACAGTTACATGTGTATACAGAACACAGCTTGG 660

Db 232 AAAGCGGATGTA---TACCGGTGAGACGTCACTTCACTTGCGGAAATGTGCTCATTT 288

Qy 661 GCTGTAAAGTATCTTGGCTTATGCTTTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 720

Db 289 GCGATTACATTAACATGATATGTTTGTGTCAGCGCCACTTATGCGGCTTACGAA 348

Qy 721 TCTGCTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 780

Db 349 GCGAGCTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 408

Qy 781 AGATGTTATCAAGTCACTTACATGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 840

Db 409 AACTGACCGTTCAAGTCAACACACCGGAGGTGACCTCG-----AATATATCAG 459

Qy 841 TTTGACTTGAATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 900

Db 460 TTTGACTGATGATCCCGGTGAGGTGTGCTTCAACAAGATGTCTGCTGCTGCTGCTG 519

Qy 901 GGTGCTCCCAATGACGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 960

Db 520 TTTGAGAGCTGGAAG---GGGTGCTCAATACGCGGTGTGCTGCTGCTGCTGCTGCTG 576

Qy 961 TCTAGTCTTCTTCCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1020

Db 577 TCCCACTTCCAGCAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 636

Qy 1021 GGTGATTAACCAAGCATGACTTACAGAGATTACTTCTTCCAGAAATGACCGCCAG 1080

Db 637 GCGATTAACCAAGCATGACTTCCGACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 696

Qy 1081 ACAGTTTTCAGAAATRA 1101

Db 697 TCGGCTGTGTGTGTAAATGA 717

RESULT 14

US-10-007-521-19

Sequence 19, Application US/10007521

Publication No. US20030054539A1

GENERAL INFORMATION:

APPLICANT: Schuelein, Martin

Andersen, Soren F.

Larsen, Lene N.

Kauppinen, Markus S.

Lange, Lene

Nielsen, Ruby I.

Ihara, Michiko

Takagi, Shinobu

TITLE OF INVENTION: No. US20030054539A1 Endoglucanases

NUMBER OF SEQUENCES: 109

CORRESPONDENCE ADDRESS:

ADDRESS: No. US20030054539A10 No. US20030054539A1disk of No. US200300545

STREET: 405 Lexington Avenue, 64th Floor

CITY: New York

STATE: New York

COUNTRY: United States of America

ZIP: 10174-6401

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

OPERATING SYSTEM: IBM PC compatible

SOFTWARE: Patentin Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/10/007,521

FILING DATE: 10-Dec-2001

CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US/08/651,136

FILING DATE: 21-MAY-1996
 ATTORNEY/AGENT INFORMATION:
 NAME: Lambiris, Elias J.
 REGISTRATION NUMBER: 33,728
 REFERENCE/DOCKET NUMBER: 4366.200-US
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 212-867-0123
 TELEFAX: 212-878-9655
 INFORMATION FOR SEQ ID NO: 19:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 1031 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: cDNA
 FEATURE:
 NAME/KEY: CDS
 LOCATION: 11..889
 SEQUENCE DESCRIPTION: SEQ ID NO: 19:
 US-10-007-521-19

Query Match 12.2%; Score 134; DB 9; Length 1031;
 Best Local Similarity 54.7%; Pred. No. 3e-33;
 Matches 338; Conservative 0; Mismatches 265; Indels 15; Gaps 3;

QY 481 GGTGCTACTACTGCTTATTGGGATGCTGTAAAGGCTCTGTAGCTGCGCGTAAGGCC 540
 DB 71 GGAATTAGACCCGCTACTGGAAGCTGCTGCAAGCCAGCTGTGATGAGTGAAGGCT 130
 QY 541 AATGTCACTTCTCTGCTCAAGTCTCTGTAACAAGTGTGTCATGCCCTTATGACAGC 600
 DB 131 TCTGTTCTGCTCCAGTCAAGTCAAGTCCATGCTATGAAATATCACTTGGCCAGACGTG 190
 QY 601 AATGTCAAGTGTGCTGTAAGGCTGTAACAGTTCATGCTGTAACAGAACCAAGCTTGG 660
 DB 191 AAAAGCGGATGTA--TAGCGGTGAACGTCATTCACCTTCCGCAACAATGTCATTT 247
 QY 661 GCTGTAAACGATTAATCTTGCCTATGCTTTCGCTGCTGCTGCATCAAGTGTGAGTGA 720
 DB 248 GCGATTGCAATTAACATGCTATGCTTTCGCTGAGCCCACTTACGCGGCTCTAGCGAA 307
 QY 721 TCTGCTGTGCTGCTTCTTGTGGAACCTTACCTTCACTTCTGTTGCTGTGTAAG 780
 DB 308 GCACCTGTGTGCTGCAAGTCAAGTGAAGTGAAGTGAAGCCGATGTTGGAG 367
 QY 781 AAGATGTATTCAGTCAAGTCAACATGCTGTGATCTTGGCTCCTCTACTGTGCTAC 840
 DB 368 AACTGACCGTTCAAGTCAACAACCGGAGGTGACCTCG--AAATATATC 418
 QY 841 TTTGACTGCAAAATGCGGCTGTGTGTTGTTGTTTCAATGATGTTCTCAAGCAATG 900
 DB 419 TTTAATCTGATGATCCCGGTGAGGTGTGCTCTTCAACAAGATGTCCTGCTAG 478
 QY 901 GGTGCTCCCAATGACGTTGGGCTCGAATACGTTGATTTTCTTGTCACTGTACTGC 960
 DB 479 TTTGGAGCTGGAAG--GGGGTGTCAATACGGGGGTGTGTGACGCGGATGCAAC 535
 QY 961 TCTAGTCTTCTTCCGCACTGCAAGCTGTGTAAATGAGATTCATCTGTTCAAGAC 1020
 DB 536 TCCCAACTTCCAGAGCTGTGCAAGCTGTGATGTCAATTCGTTTCACTGTGATGCTG 595
 QY 1021 GCTGATAACCAAGCATCTTAACAAGAGTTACCTTCCCAAGGAATACAGCGCCAG 1080
 DB 596 GCGATTAACCCCAAGTACCTTCCGACCTGTACCTCCCAAGGACCTCAATATTC 655
 QY 1081 ACAGGTGTTCAGAAAA 1098
 DB 656 TCGGGCTGTGTCTGTA 673

RESULT 15
 US-10-007-521-17
 ; Sequence 17, Application US/10007521

Publication No. US20030054539A1

GENERAL INFORMATION:

APPLICANT:

Schleim, Martin
 Andersen, Lene N.
 Lassen, Soren P.
 Kauppinen, Markus S.
 Lange, Lene
 Nielsen, Ruby I.
 Ihara, Michiko
 Takagi, Shinobu

TITLE OF INVENTION: No. US20030054539A1e1 Endoglucanases

NUMBER OF SEQUENCES: 109

CORRESPONDENCE ADDRESS:

ADDRESSEE: No. US20030054539A1o No. US20030054539A1d1e1 of No. US20030054539A1
 STREET: 405 Lexington Avenue, 64th floor
 CITY: New York
 STATE: New York
 COUNTRY: United States of America
 ZIP: 10174-6401

COMPUTER READABLE FORM:

MEDIUM TYPE: floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/10/007,521

FILING DATE: 10-Dec-2001

CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US/08/651,136

FILING DATE: 21-MAY-1996

ATTORNEY/AGENT INFORMATION:

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REGISTRATION NUMBER: 33,728

REFERENCE/DOCKET NUMBER: 4366.200-US

TELECOMMUNICATION INFORMATION:

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INFORMATION FOR SEQ ID NO: 17:

SEQUENCE CHARACTERISTICS:

LENGTH: 1048 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: cDNA

FEATURE:

NAME/KEY: CDS

LOCATION: 13..906

SEQUENCE DESCRIPTION: SEQ ID NO: 17:

US-10-007-521-17

Query Match 12.2%; Score 134; DB 9; Length 1048;

Best Local Similarity 54.7%; Pred. No. 3e-33;

Matches 338; Conservative 0; Mismatches 265; Indels 15; Gaps 3;

QY 481 GGTGCTACTACTGCTTATTGGGATGCTGTAAAGGCTCTGTAGCTGCGCGTAAGGCC 540
 DB 88 GGAATTAGACCCGCTACTGGAAGCTGCTGCAAGCCAGCTGTGATGAGTGAAGGCT 147
 QY 541 AATGTCACTTCTCTGCTCAAGTCTCTGTAACAAGTGTGTCATGCCCTTATGACAGC 600
 DB 148 TCTGTTCTGCTCCAGTCAAGTCAAGTCCATGCTATGAAATATCACTTGGCCAGACGTG 207
 QY 601 AATGTCAAGTGTGCTGTAAGGCTGTAACAGTTCATGCTGTAACAGAACCAAGCTTGG 660
 DB 208 AAAAGCGGATGTA--TAGCGGTGAACGTCATTCCTGCGGAACAATGTCATTT 264
 QY 661 GCTGTAACGATTAATCTTGCCTATGCTTTCGCTGCTGCTGCATCAAGTGTGAGTGA 720
 DB 265 GCGATTGCAATTAACATGCTATGCTTTCGCTGAGCCCACTTACGCGGCTCTAGCGAA 324
 QY 721 TCTGCTGTGCTGCTTCTTGTGGAACCTTACCTTCACTTCTGTTGCTGTGTAAG 780

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Db 325 GCAGCCTGGTGTGGCAGGTGACGATTGACGTTTACGAGTGCACCGTAGTTGGAG 384
Qy 781 AAGATGGTTATCCAAAGTCACTPAACACTGGTGTGATCTTGGCTCCTCTACTGGTGTAC 840
Db 385 AAACGACCGGTTCAGTCAACACACGAGAGGTGACTCGG-----AAATPATCAC 435
Qy 841 TTGACTTGCAAATGCGCGGTGGTGGTGTGATTTTCAATGTTGCTCCAAGCATGG 900
Db 436 TTGACTGATGATCCCGGTGAGGTGTGGCTCTTCACACAGGATGTCTGCTCAG 495
Qy 901 GGTGCTCCCAATGACGTTGGGGCTGAGATACGGTGTATTTCTTGCACTGACTGC 960
Db 496 TTGGGAGCTGGAACG---GGGGTCTCAATACGGGGGTGTGTCCAGCCGTGACCAATGC 552
Qy 961 TCTAGCTTCTCCGCACTCCAAAGCTGTGTAAATGAGATTCACCTGGTTCAAGAAC 1020
Db 553 TCCCAACTTCAGCAGCTGTGCAAGCTGATGTCAATTCGTTGACTGGATGGGTGGC 612
Qy 1021 GCTGATTAACCCAAAGCATGACTTACAAAGAAATTACTGTCCCAAGGAATCACCGCCAAG 1080
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